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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/806,660	03/23/2004	William Robert Hanson	035451-0197	1156

26371 7590 04/19/2005  
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MILWAUKEE, WI 53202-5308

EXAMINER

WU, XIAO MIN

ART UNIT PAPER NUMBER

2674

DATE MAILED: 04/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/806,660	<b>Applicant(s)</b> HANSON ET AL	
	<b>Examiner</b> XIAO M. WU	<b>Art Unit</b> 2674	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 06 August 2004.
- 2a) ☐ This action is FINAL.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-5, 8-10, 12, 14-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Koved et al. (US Patent No. 5,274,363).

As to claim 1, Koved discloses a method of providing information to a display system user, comprising: providing a first image on a first display (20, Fig. 1); detecting the location of a second display (80, Fig. 1) relative to the first display (see Fig. 2A); providing data (S6, Fig. 2A) to the second display based on the detected location of the second display; generating a second image on the second display, with the second image generated from the data provided to the second display to provide at least one of enhanced display of a portion of the first image, solicitation for input, and additional output not provided in the first image (e.g. the movable display can display the information link to an icon of the large display (see Fig. 2A).

As to claim 2, Koved discloses transmitting data representative of the detected location of the second display to a processing device (S3, Fig. 2A).

As to claim 3, Koved discloses transmitting second display data from the processing device to the second display device (S6, Fig. 2A).

As to claim 4, Koved discloses receiving input from a user, by the second display (col. 3, lines 32-36).

As to claim 5, Koved discloses extracting embedded information (e.g. the information link to an icon) based on the location of the second display (See Fig. 2A).

As to claim 8, Koved discloses a movable output device (80, Fig. 1) configured for movement across a primary display surface (20, Fig. 1, also see col. 8, lines 9-13), the primary display (20, Fig. 1) being in communication with a processing device (30, Fig. 1), comprising: a device housing (e.g. movable small display 80) supporting a visual display, the device housing supporting a processor (e.g. it is inherent to have a processor in the movable display so that the location data of the movable display relative to the large display can be transmitted to the computer 30 and the image information from the computer can be received and displayed on the movable display), Koved further discloses a wireless communication device receiving output data from the processing device (see col. 3, lines 47-50), the output data being based on location data from a location sensor (60, Fig. 1) sensing the relative location of the device housing (80) and the primary display surface, the output device (80) generating an output based on the output data; wherein a user of the output device receives an enhanced output as compared with the primary display output (e.g. the movable display includes a zooming function for zooming the image data from the large display, see col. 8, lines 17-41).

As to claims 9 and 10, Koved discloses that the movable display can display both textual information and graphics information (e.g. map).

As to claim 12, Koved discloses the enhanced output includes input options (e.g. zooming) provided to a user.

As to claim 14, Koved discloses the enhanced output includes audio information (col. 3, lines 35-36).

As to claim 15, Koved discloses the enhanced output includes video information (col. 8, lines 9-12).

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 6, 11, 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koved et al. (US Patent No. 5,274,363) in view of Silverstein (Pub. No. US 2002/0079143).

As to claim 6 and 13, it is noted that Koved does not specifically disclose providing tactile feedback to a user of the second display. Silverstein is cited to teach a movable display similar to Koved. Silverstein discloses the movable display including a button for providing a tactile to a user. It would have been obvious to one of ordinary skill in the art to have modified Koved's input device with the features of the tactile button as taught by Silverstein so as to provide a tactile feedback to the user when the user depress the button.

As to claim 11, Silverstein further discloses the button 116 can be used to control the color of the display image [0028].

6. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Koved et al. in view of Silverstein (Pub. No. US 2002/0079143) as applied to claim 1 above, and further in view of Sajna (US Patent No. 5,923,522).

As to claim 7, it is noted that Koved and Silverstein do not specifically disclose the tactile feedback includes providing device deformation using electronic muscle. Sajna is cited to teach a tactile switch similar to Silverstein. Sajna further discloses that resilient deformation of the switching member 22 varies the capacitance of the capacitor in an electrically detectible manner (col. 3, lines 22-32). It would have been obvious to one of ordinary skill in the art to have modified Koved and Silverstein with the features of the electronic variable by the deformation of the switch as taught by Sajna because different type of tactile switches can be substituted for each other.

### ***Conclusion***

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The US 5,146,049, 5,714,972, 5,818,425, 6,243,074, 6,476,378, 6,795,060, 2002/0158921 and 2003/0098832 are cited to teach a movable display device.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to XIAO M. WU whose telephone number is 571 272-7761. The examiner can normally be reached on 6:30 am to 4:00 pm.

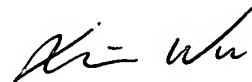
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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, PATRICK EDOUARD, can be reached on 571 272-7603. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

x.w.

April 13, 2005



**XIAO M. WU**  
**Primary Examiner**  
**Art Unit 2674**